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785 790 795 800

Gly Glu Pro Ser Val Thr Lys Leu Ile Pro Gly Gln Glu Gly Gln Gln  
805 810 815

Trp Leu Arg Leu Tyr Pro Asn Trp Glu Asn Leu Asn Gly Ser Thr Leu  
820 825 830

Gln Glu Leu Leu Val Tyr Arg His Ser Cys Pro Ser Arg Ser Glu Ile  
835 840 845

Ser Leu Leu Cys Ser Lys Gln Asp Cys Gly Arg Arg Pro Ala Ala Arg  
850 855 860

Met Asn Lys Arg Ile Leu Gly Gly Arg Thr Ser Arg Pro Gly Arg Trp  
 865 870 875 880

Pro Trp Gln Cys Ser Leu Gln Ser Glu Pro Ser Gly His Ile Cys Gly  
 885 890 895

Cys Val Leu Ile Ala Lys Lys Trp Val Leu Thr Val Ala His Cys Phe  
 900 905 910

Glu Gly Arg Glu Asp Ala Asp Val Trp Lys Val Val Phe Gly Ile Asn  
 915 920 925

Asn Leu Asp His Pro Ser Gly Phe Met Gln Thr Arg Phe Val Lys Thr  
 930 935 940

Ile Leu Leu His Pro Arg Tyr Ser Arg Ala Val Val Asp Tyr Asp Ile  
 945 950 955 960

Ser Val Val Glu Leu Ser Asp Asp Ile Asn Glu Thr Ser Tyr Val Arg  
 965 970 975

Pro Val Cys Leu Pro Ser Pro Glu Glu Tyr Leu Glu Pro Asp Thr Tyr  
 980 985 990

Cys Tyr Ile Thr Gly Trp Gly His Met Gly Asn Lys Met Pro Phe Lys  
 995 1000 1005

Leu Gln Glu Gly Glu Val Arg Ile Ile Pro Leu Glu Gln Cys Gln  
 1010 1015 1020

Ser Tyr Phe Asp Met Lys Thr Ile Thr Asn Arg Met Ile Cys Ala  
 1025 1030 1035

Gly Tyr Glu Ser Gly Thr Val Asp Ser Cys Met Gly Asp Ser Gly  
 1040 1045 1050

Gly Pro Leu Val Cys Glu Arg Pro Gly Gly Gln Trp Thr Leu Phe  
 1055 1060 1065

Gly Leu Thr Ser Trp Gly Ser Val Cys Phe Ser Lys Val Leu Gly  
 1070 1075 1080

Pro Gly Val Tyr Ser Asn Val Ser Tyr Phe Val Gly Trp Ile Glu  
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Arg Gln Ile Tyr Ile Gln Thr Phe Leu Gln Lys Lys Ser Gln Gly  
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Lys Cys Ile Arg Arg Ser Trp Val Cys Asp Gly Asp Asn Asp Cys Glu  
 35 40 45

Asp Asp Ser Asp Glu Gln Asp Cys Pro Pro Arg Glu Cys Glu Glu Asp  
 50 55 60

Glu Phe Pro Cys Gln Asn Gly Tyr Cys Ile Arg Ser Leu Trp His Cys  
 65 70 75 80

Asp Gly Asp Asn Asp Cys Gly Asp Asn Ser Asp Glu Gln Cys Asp Met  
 85 90 95

Arg Lys Cys Ser Asp Lys Glu Phe Arg Cys Ser Asp Gly Ser Cys Ile  
 100 105 110

Ala Glu His Trp Tyr Cys Asp Gly Asp Thr Asp Cys Lys Asp Gly Ser  
 115 120 125

Asp Glu Glu Asn Cys Pro Ser Ala Val Pro Ala Pro Pro Cys Asn Leu  
 130 135 140

Glu Glu Phe Gln Cys Ala Tyr Gly Arg Cys Ile Leu Asp Ile Tyr His  
 145 150 155 160

Cys Asp Gly Asp Asp Asp Cys Gly Asp Trp Ser Asp Glu Ser Asp Cys  
 165 170 175

Cys Glu Tyr Ser Gly Gln Leu Gly Ala Ser His Gln Pro Cys Arg Ser  
 180 185 190

Gly Glu Phe Met Cys Asp Ser Gly Leu Cys Ile Asn Ala Gly Trp Arg  
 195 200 205

Cys Asp Gly Asp Ala Asp Cys Asp Asp Gln Ser Asp Glu Arg Asn Cys  
 210 215 220

Lys Gln Phe Arg Cys His Ser Gly Arg Cys Val Arg Leu Ser Trp Arg  
 225 230 235 240

Cys Asp Gly Glu Asp Asp Cys Ala Asp Asn Ser Asp Glu Glu Asn Cys  
 245 250 255

Glu Asn Thr Gly Ser Pro Gln Cys Ala Leu Asp Gln Phe Leu Cys Trp  
 260 265 270

Asn Gly Arg Cys Ile Gly Gln Arg Lys Leu Cys Asn Gly Val Asn Asp  
 275 280 285

Cys Gly Asp Asn Ser Asp Glu Ser Pro Gln Gln Asn Cys Arg Pro Arg  
 290 295 300

Thr Gly Glu Glu Asn Cys Asn Val Asn Asn Gly Gly Cys Ala Gln Lys  
 305 310 315 320

Cys Gln Met Val Arg Gly Ala Val Gln Cys Thr Cys His Thr Gly Tyr  
 325 330 335

Arg Leu Thr Glu Asp Gly His Thr Cys Gln Asp Val Asn Glu Cys Ala  
 340 345 350

Glu Glu Gly Tyr Cys Ser Gln Gly Cys Thr Asn Ser Glu Gly Ala Phe  
 355 360 365

Gln Cys Trp Cys Glu Thr Gly Tyr Glu Leu Arg Pro Asp Arg Arg Ser  
 370 375 380

Cys Lys Ala Leu Gly Pro Glu Pro Val Leu Leu Phe Ala Asn Arg Ile  
 385 390 395 400

Asp Ile Arg Gln Val Leu Pro His Arg Ser Glu Tyr Thr Leu Leu Leu  
 405 410 415

Asn Asn Leu Glu Asn Ala Ile Ala Leu Asp Phe His His Arg Arg Glu  
 420 425 430

Leu Val Phe Trp Ser Asp Val Thr Leu Asp Arg Ile Leu Arg Ala Asn  
 435 440 445

Leu Asn Gly Ser Asn Val Glu Glu Val Val Ser Thr Gly Leu Glu Ser  
 450 455 460

Pro Gly Gly Leu Ala Val Asp Trp Val His Asp Lys Leu Tyr Trp Thr  
 465 470 475 480

Asp Ser Gly Thr Ser Arg Ile Glu Val Ala Asn Leu Asp Gly Ala His  
 485 490 495

Arg Lys Val Leu Leu Trp Gln Asn Leu Glu Lys Pro Arg Ala Ile Ala  
 500 505 510

Leu His Pro Met Glu Gly Thr Ile Tyr Trp Thr Asp Trp Gly Asn Thr  
 515 520 525

Pro Arg Ile Glu Ala Ser Ser Met Asp Gly Ser Gly Arg Arg Ile Ile  
 530 535 540

Ala Asp Thr His Leu Phe Trp Pro Asn Gly Leu Thr Ile Asp Tyr Ala  
 545 550 555 560

Gly Arg Arg Met Tyr Trp Val Asp Ala Lys His His Val Ile Glu Arg  
 565 570 575

Ala Asn Leu Asp Gly Ser His Arg Lys Ala Val Ile Ser Gln Val Phe  
 580 585 590

Glu Asp Ser Leu Tyr Trp Thr Asp Trp His Thr Lys Ser Ile Asn Ser  
 595 600 605

Ala Asn Lys Phe Thr Gly Lys Asn Gln Glu Ile Ile Arg Asn Lys Leu  
 610 615 620

His Phe Pro Met Asp Ile His Thr Leu His Pro Gln Arg Gln Pro Ala  
 625 630 635 640

Gly Lys Asn Arg Cys Gly Asp Asn Asn Gly Gly Cys Thr His Leu Cys  
 645 650 655

Leu Pro Ser Gly Gln Asn Tyr Thr Cys Ala Cys Pro Thr Gly Phe Arg  
 660 665 670

Lys Ile Ser Ser His Ala Cys Ala Gln Ser Leu Asp Lys Phe Leu Leu  
 675 680 685

Phe Ala Arg Arg Met Asp Ile Arg Arg Ile Ser Phe Asp Thr Glu Asp  
 690 695 700

Leu Ser Asp Asp Val Ile Pro Leu Ala Asp Val Arg Ser Ala Val Ala  
 705 710 715 720

Leu Asp Trp Asp Ser Arg Asp Asp His Val Tyr Trp Thr Asp Val Ser  
 725 730 735

Thr Asp Thr Ile Ser Arg Ala Lys Trp Asp Gly Thr Gly Gln Glu Val  
 740 745 750

Val Val Asp Thr Ser Leu Glu Ser Pro Ala Gly Leu Ala Ile Asp Trp  
 755 760 765

Val Thr Asn Lys Leu Tyr Trp Thr Asp Ala Gly Thr Asp Arg Ile Glu  
 770 775 780

Val Ala Asn Thr Asp Gly Ser Met Arg Thr Val Leu Ile Trp Glu Asn  
 785 790 795 800

Leu Asp Arg Pro Arg Asp Ile Val Val Glu Pro Met Gly Gly Tyr Met  
 805 810 815

Tyr Trp Thr Asp Trp Gly Ala Ser Pro Lys Ile Glu Arg Ala Gly Met  
 820 825 830

Asp Ala Ser Gly Arg Gln Val Ile Ile Ser Ser Asn Leu Thr Trp Pro  
 835 840 845

Asn Gly Leu Ala Ile Asp Tyr Gly Ser Gln Arg Leu Tyr Trp Ala Asp  
 850 855 860

Ala Gly Met Lys Thr Ile Glu Phe Ala Gly Leu Asp Gly Ser Lys Arg  
 865 870 875 880

Lys Val Leu Ile Gly Ser Gln Leu Pro His Pro Phe Gly Leu Thr Leu  
 885 890 895

Tyr Gly Glu Arg Ile Tyr Trp Thr Asp Trp Gln Thr Lys Ser Ile Gln  
 900 905 910

Ser Ala Asp Arg Leu Thr Gly Leu Asp Arg Glu Thr Leu Gln Glu Asn  
 915 920 925

Leu Glu Asn Leu Met Asp Ile His Val Phe His Arg Arg Arg Pro Pro  
 930 935 940

Val Ser Thr Pro Cys Ala Met Glu Asn Gly Gly Cys Ser His Leu Cys  
 945 950 955 960

Leu Arg Ser Pro Asn Pro Ser Gly Phe Ser Cys Thr Cys Pro Thr Gly  
 965 970 975

Ile Asn Leu Leu Ser Asp Gly Lys Thr Cys Ser Pro Gly Met Asn Ser  
 980 985 990

Phe Leu Ile Phe Ala Arg Arg Ile Asp Ile Arg Met Val Ser Leu Asp  
 995 1000 1005

Ile	Pro	Tyr	Phe	Ala	Asp	Val	Val	Val	Pro	Ile	Asn	Ile	Thr	Met
1010						1015						1020		

Lys	Asn	Thr	Ile	Ala	Ile	Gly	Val	Asp	Pro	Gln	Glu	Gly	Lys	Val
1025						1030						1035		

Tyr	Trp	Ser	Asp	Ser	Thr	Leu	His	Arg	Ile	Ser	Arg	Ala	Asn	Leu
1040						1045						1050		

Asp	Gly	Ser	Gln	His	Glu	Asp	Ile	Ile	Thr	Thr	Gly	Leu	Gln	Thr
1055						1060						1065		

Thr	Asp	Gly	Leu	Ala	Val	Asp	Ala	Ile	Gly	Arg	Lys	Val	Tyr	Trp
1070						1075						1080		

Thr	Asp	Thr	Gly	Thr	Asn	Arg	Ile	Glu	Val	Gly	Asn	Leu	Asp	Gly
1085						1090						1095		

Ser	Met	Arg	Lys	Val	Leu	Val	Trp	Gln	Asn	Leu	Asp	Ser	Pro	Arg
1100						1105						1110		

Ala	Ile	Val	Leu	Tyr	His	Glu	Met	Gly	Phe	Met	Tyr	Trp	Thr	Asp
1115						1120						1125		

Trp	Gly	Glu	Asn	Ala	Lys	Leu	Glu	Arg	Ser	Gly	Met	Asp	Gly	Ser
1130						1135						1140		

Asp Arg	Ala Val	Leu Ile	Asn Asn	Leu Gly	Trp Pro	Asn Gly
1145			1150			1155

Leu Thr	Val Asp	Lys Ala	Ser Ser	Gln Leu	Leu Trp	Ala Asp	Ala
1160			1165				1170

His Thr	Glu Arg	Ile Glu	Ala Ala	Asp Leu	Asn Gly	Ala Asn	Arg
1175			1180				1185

His Thr	Leu Val	Ser Pro	Val Gln	His Pro	Tyr Gly	Leu Thr	Leu
1190			1195				1200

Leu Asp	Ser Tyr	Ile Tyr	Trp Thr	Asp Trp	Gln Thr	Arg Ser	Ile
1205			1210				1215

His Arg	Ala Asp	Lys Gly	Thr Gly	Ser Asn	Val Ile	Leu Val	Arg
1220			1225				1230

Ser Asn	Leu Pro	Gly Leu	Met Asp	Met Gln	Ala Val	Asp Arg	Ala
1235			1240				1245

Gln Pro	Leu Gly	Phe Asn	Lys Cys	Gly Ser	Arg Asn	Gly Gly	Cys
1250			1255				1260

Ser His	Leu Cys	Leu Pro	Arg Pro	Ser Gly	Phe Ser	Cys Ala	Cys
1265			1270				1275

Pro Thr Gly Ile Gln Leu Lys Gly Asp Gly Lys Thr Cys Asp Pro  
 1280 1285 1290

Ser Pro Glu Thr Tyr Leu Leu Phe Ser Ser Arg Gly Ser Ile Arg  
 1295 1300 1305

Arg Ile Ser Leu Asp Thr Ser Asp His Thr Asp Val His Val Pro  
 1310 1315 1320

Val Pro Glu Leu Asn Asn Val Ile Ser Leu Asp Tyr Asp Ser Val  
 1325 1330 1335

Asp Gly Lys Val Tyr Tyr Thr Asp Val Phe Leu Asp Val Ile Arg  
 1340 1345 1350

Arg Ala Asp Leu Asn Gly Ser Asn Met Glu Thr Val Ile Gly Arg  
 1355 1360 1365

Gly Leu Lys Thr Thr Asp Gly Leu Ala Val Asp Trp Val Ala Arg  
 1370 1375 1380

Asn Leu Tyr Trp Thr Asp Thr Gly Arg Asn Thr Ile Glu Ala Ser  
 1385 1390 1395

Arg Leu Asp Gly Ser Cys Arg Lys Val Leu Ile Asn Asn Ser Leu  
 1400 1405 1410

Asp Glu Pro Arg Ala Ile Ala Val Phe Pro Arg Lys Gly Tyr Leu  
 1415 1420 1425

Phe Trp Thr Asp Trp Gly His Ile Ala Lys Ile Glu Arg Ala Asn  
 1430 1435 1440

Leu Asp Gly Ser Glu Arg Lys Val Leu Ile Asn Thr Asp Leu Gly  
 1445 1450 1455

Trp Pro Asn Gly Leu Thr Leu Asp Tyr Asp Thr Arg Arg Ile Tyr  
 1460 1465 1470

Trp Val Asp Ala His Leu Asp Arg Ile Glu Ser Ala Asp Leu Asn  
 1475 1480 1485

Gly Lys Leu Arg Gln Val Leu Val Ser His Val Ser His Pro Phe  
 1490 1495 1500

Ala Leu Thr Gln Gln Asp Arg Trp Ile Tyr Trp Thr Asp Trp Gln  
 1505 1510 1515

Thr Lys Ser Ile Gln Arg Val Asp Lys Tyr Ser Gly Arg Asn Lys  
 1520 1525 1530

Glu Thr Val Leu Ala Asn Val Glu Gly Leu Met Asp Ile Ile Val  
 1535 1540 1545

Val Ser Pro Gln Arg Gln Thr Gly Thr Asn Ala Cys Gly Val Asn  
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Asn Gly Gly Cys Thr His Leu Cys Phe Ala Arg Ala Ser Asp Phe  
 1565 1570 1575

Val Cys Ala Cys Pro Asp Glu Pro Asp Ser Arg Pro Cys Ser Leu  
 1580 1585 1590

Val Pro Gly Leu Val Pro Pro Ala Pro Arg Ala Thr Gly Met Ser  
 1595 1600 1605

Glu Lys Ser Pro Val Leu Pro Asn Thr Pro Pro Thr Thr Leu Tyr  
 1610 1615 1620

Ser Ser Thr Thr Arg Thr Arg Thr Ser Leu Glu Glu Val Glu Gly  
 1625 1630 1635

Arg Cys Ser Glu Arg Asp Ala Arg Leu Gly Leu Cys Ala Arg Ser  
 1640 1645 1650

Asn Asp Ala Val Pro Ala Ala Pro Gly Glu Gly Leu His Ile Ser  
 1655 1660 1665

Tyr Ala Ile Gly Gly Leu Leu Ser Ile Leu Leu Ile Leu Val Val  
 1670 1675 1680

Ile	Ala	Ala	Leu	Met	Leu	Tyr	Arg	His	Lys	Lys	Ser	Lys	Phe	Thr
1685							1690					1695		

Asp	Pro	Gly	Met	Gly	Asn	Leu	Thr	Tyr	Ser	Asn	Pro	Ser	Tyr	Arg
1700							1705					1710		

Thr	Ser	Thr	Gln	Glu	Val	Lys	Ile	Glu	Ala	Ile	Pro	Lys	Pro	Ala
1715							1720					1725		

Met	Tyr	Asn	Gln	Leu	Cys	Tyr	Lys	Lys	Glu	Gly	Gly	Pro	Asp	His
1730							1735					1740		

Asn	Tyr	Thr	Lys	Glu	Lys	Ile	Lys	Ile	Val	Glu	Gly	Ile	Cys	Leu
1745							1750					1755		

Leu	Ser	Gly	Asp	Asp	Ala	Glu	Trp	Asp	Asp	Leu	Lys	Gln	Leu	Arg
1760							1765					1770		

Ser	Ser	Arg	Gly	Gly	Leu	Leu	Arg	Asp	His	Val	Cys	Met	Lys	Thr
1775							1780					1785		

Asp	Thr	Val	Ser	Ile	Gln	Ala	Ser	Ser	Gly	Ser	Leu	Asp	Asp	Thr
1790							1795					1800		

Glu	Thr	Glu	Gln	Leu	Leu	Gln	Glu	Glu	Gln	Ser	Glu	Cys	Ser	Ser
1805							1810					1815		

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Thr Gly Trp Lys His Glu Arg Lys Leu Ser Ser Glu Ser Gln Val  
 1835 1840 1845

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actgtcacac tg

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